



# Care Delivery Work Group: Discussion of Potential HIE Tools for Development

December 9, 2015

# Overall HIE Goals of the District

- Promote increased health care system integration
- Encourage greater connectivity between providers
- Increase access to and use of data in the DC HIE
- Assist increased quality measurement and reporting
- Support the Health Home initiative(s)

# Potential Tools/Initiatives

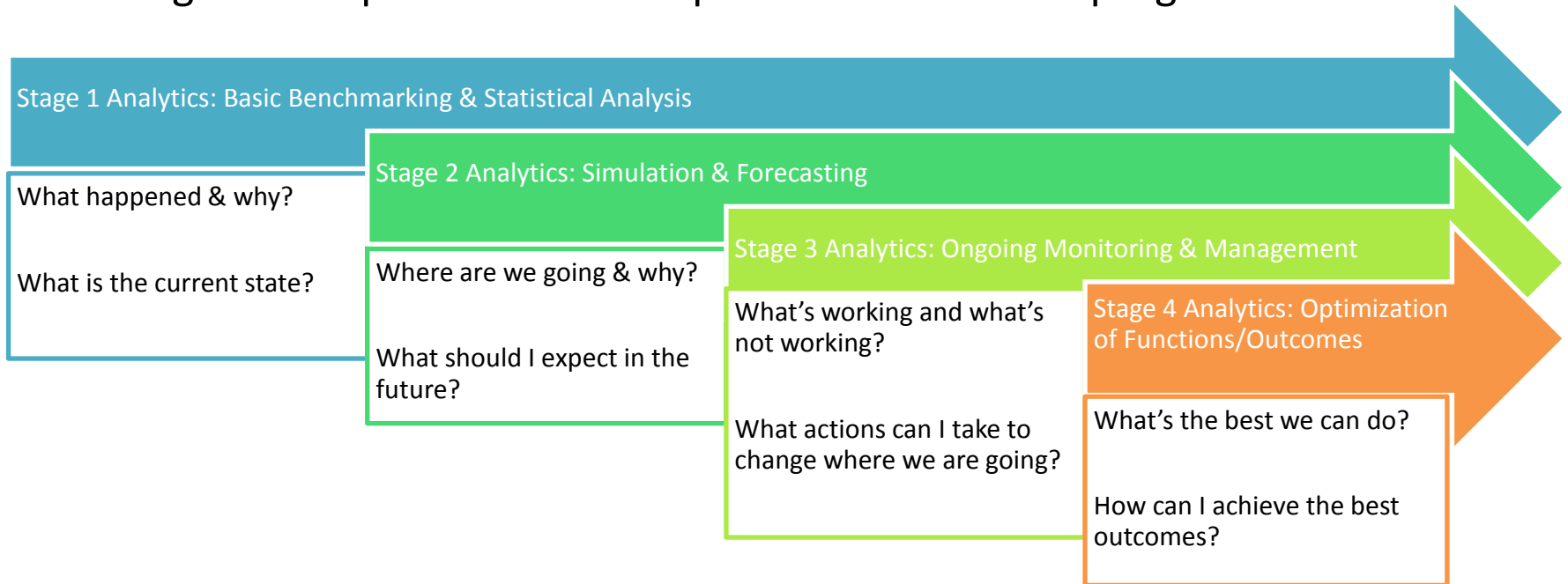
- 1) Risk Adjustment/Predictive Analytics
- 2) Dynamic Patient Care Profile
- 3) Electronic Clinical Quality Measurement Reporting and Storage Solution
- 4) Electronic Obstetrics Authorization & Initial Assessment Form
- 5) Increased Ambulatory Connectivity and Support

# #1: Definitions

- **Risk assessment**
  - A systematic process or tool used to evaluate an individual's health risks and/or quality of life
- **Predictive modeling**
  - A process used in predictive analytics to create a statistical model of future behavior. Predictive analytics is an area of data mining concerned with forecasting probabilities and trends
- **Risk adjustment**
  - An actuarial tool used to calibrate payments to health plans or other stakeholders based on relative health of the at-risk population

# #1: Measuring Past vs. Predicting Future

- Could we leverage predictive analytics—including predictive models—to design and implement more impactful health home programs?



- With predictive analytics, we can focus on what we can control (the future), rather than focusing on what we cannot control (the past).
- Predictive analytics allow us to be **proactive**, instead of **reactive**.

# #1 – Potential Role in Health Homes

## Identify

- **Identify “high-tier” cohort for the program**
- Estimate the greatest opportunities to bend the trend in morbidity, utilization, and medical cost patterns

## Measure/Monitor

- **Measure the program’s past and future value and ROI**
- Monitor programs impact in short- and long-term morbidity, utilization, and medical cost trends

# #1: Tools Offer a Range of Features

Feature / Capability
Identifies individual conditions for a given beneficiary
Quantifies condition prevalence within a population
Estimates medical cost trends (long-term vs. short-term)
Addresses the unique needs of Medicaid beneficiaries in the tool
Assigns recipients to distinct health status classification (customizable to estimate utilization/preventable utilization and project trends)

## #2: Patient Care Profile

- “On-demand” document made available to providers and care managers that presents an aggregation of critical information for a particular patient.
  - Single access point to a critical mass of patient information that will help support better care coordination.
  - Includes information not traditionally included in other clinical documents (e.g., episodic clinical documents), such as:
    - Identification of Care Team Members
    - Diagnosed Chronic Conditions
    - Housing Status
    - Risk Score
- Initially accessible through a portal system.
  - In subsequent phases, the Care Profile can be enabled to allow EHRs to call for the document directly within the system.



# #2: Dynamic Care Profile – Mock-Up

## PATIENT CARE PROFILE VIEW - MOCK UP

PATIENT DEMOGRAPHICS				RISK STRATIFICATION			ATTRIBUTED PROVIDER(S)/PAYER(S)							
Name : John X. Snith				Risk Type	Score	Band	Organization	POC	Phone					
DOB : 04/09/1954				Redmission	51	Medium	Bread for the City	Dr. X	2025556688					
Address: 3700 Massachusetts Ave NW, Washington DC, 20016				Re-ED visit	70	High	MFA	Dr. O	2025679876					
Phone #1: 202-444-7777							Trusted Health Plan		2026453546					
Phone#2: 202-555-3232														
CARE MANAGEMENT PROGRAM(S)														
Care Plan available	Organization	Care Manager	Phone Number	Email	Type	Short / Long term	Start Date	End Date						
<a href="#">Yes, click HERE to view</a>	Trusted Health Plan	Ms. Mary Von	443-410-4100	mvon@hcc.org	Diabetes control	Long term	2/1/2014	2/1/2016						
<a href="#">Yes, click HERE to view</a>	Providence Hospital	Sally Brown	443-555-8787	sallyomailey@cfmp.org	COPD	Short	3/1/2014	6/1/2014						
CHRONIC CONDITIONS		MEDICATIONS		IMMUNIZATIONS		HOUSING STATUS								
Type	Date	Type	Date	Type	Date	Status		Date						
COPD	3/21/2008	Metformin	2/15/2014	MMR	6/6/2015	Permanent Supportive Housing		10/10/2010						
Diabetes	8/22/1982	Levalbuterol	6/11/2009	Influenza	11/11/2014									
		Insulin	11/23/1985											
ENCOUNTER NOTIFICATION(S)														
ER VISIT(S) [LAST 120 DAYS]							OTHER PROVIDER(S) [LAST 120 DAYS]							
Date	Facility	Visit Type					Date	Facility	Visit Type					
6/15/2014	MFA	ER					6/15/2014	MFA						
7/2/2015	Bread for the City	ER					7/2/2015	Bread for the City						
HOSPITAL VISIT(S) [LAST 120 DAYS]														
Date	Facility	Visit Type												
6/15/2014	Providence Hospital	Inpatient												
7/2/2015	Howard University Hospital	OBV												
MEDICAID CLAIMS DATA FROM LAST 12 MONTHS (MM-DD-YYYY - MM-DD-YYYY)														
<b>Patient Total at All Hospitals</b> Total Charges: \$423,868 Total Visits: 35 Total Hospitals: 11 Zip on Last Visit: 20001 Primary Payer: Medicaid fee for service: Secondary Payer: Other:				<b>Conditions</b> Chronic Obstructive Pulmonary Chronic Asthma Chronic Kidney Disease Chronic Diabetes Chronic Heart Failure Chronic Hyperlipidemia Chronic Hypertension Mental Health: Depression				Case Mix Data Through: August 2015						
Admit Date	Discharge Date	Hospital Name	MRN	Visit Type	IP Re-admit	Pgt	DRG	DRG Description	SOI	Dx1 Description	Dx1	Dx2	Dx3	Dx4
9/25/2015	9/25/2015	Hospital 1	123456789	IP	Yes	Yes	046	PERIPHERAL CRANIAL & AUTONOMIC NERVE DISORDERS	3	"DIAB NEURO MANIF TYPE II"	25060	40391	3441	5856
9/25/2015	9/25/2015	Hospital 2	987654321	OBV		Yes				"DIAB NEURO MANIF TYPE II"	25060	5363	5856	V4511
9/25/2015	9/25/2015	Hospital 1	123123123	ED						"ABDOM PAIN GENERALIZED (Begin 1994)"	78907	7295	25000	V5867
9/25/2015	9/25/2015	Hospital 3	123456789	IP	Yes		460	RENAL FAILURE	3	"HYP RENAL NOS W REN FAIL (Begin 1985)"	40391	2761	4168	5363
9/25/2015	9/25/2015	Hospital 1	987654321	OBV		Yes				"DIAB NEURO MANIF TYPE II"	25060	5363	V58	40391
9/25/2015	9/25/2015	Hospital 3	987654321	OBV						"GASTROPARESIS (Begin 1994)"	5363	3441	40391	5856
9/25/2015	9/25/2015	Hospital 1	654321	IP	Yes	Yes	046	PERIPHERAL CRANIAL & AUTONOMIC NERVE DISORDERS	3	"DIAB NEURO MANIF TYPE II"	25060	40391	3441	2761

# #3-5: Other Potential HIE Projects

- ***eCQM Reporting and Storage Solution***
  - Facilitate mandatory reporting criteria and prepare hospitals/practices for future APM opportunities
- ***Electronic OB Authorization Form***
  - Further engage pregnant beneficiaries in prenatal care and create infrastructure for future specialized registries
- ***Increased Ambulatory Connectivity and Support***
  - Support current and future care coordination services, including baseline clinical data exchange and quality measurement